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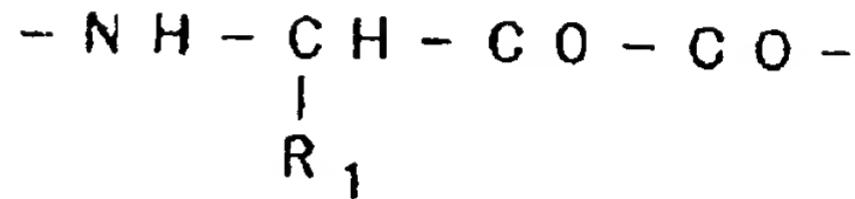
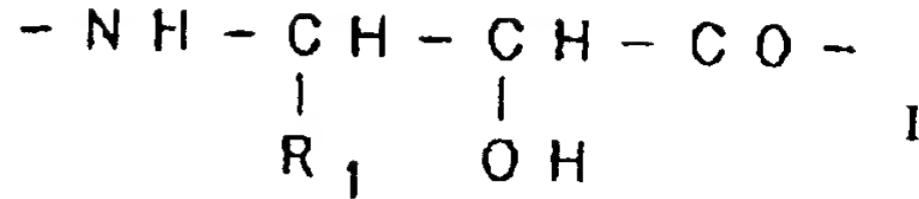
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APPLICANT : MICROBIAL CHEM RES FOUND;

INVENTOR : NAGAI MACHIKO;

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TITLE : PRODUCTION OF
3-AMINO-2-OXOFATTY ACID
DERIVATIVE



ABSTRACT : PURPOSE: To produce a physiologically active substance having 3-amino-2- oxocarbonyl group by oxidizing a 3-amino-2-hydroxyfatty acid derivative with an oxidizing agent such as DMSO and, as necessary, eliminating protecting group.

CONSTITUTION: The objective compound having a partial structural formula II can be produced by oxidizing a compound having partial structural formula I (R_1 is saturated or unsaturated hydrocarbon group) and, as necessary, eliminating protecting group. The reaction is preferably carried out under a mild condition not to exert adverse effect to the compound except for the oxidation at 2-site. Preferably, DMSO is used as the oxidizing agent and a combination of a weak base and an acid (preferably salt of trifluoroacetic acid and pyridines) as a catalyst. Further, it is preferable to use a carbodiimide, acetic anhydride, oxalyl chloride, etc., in combination with the above compounds. The reaction is carried out at 0-40°C for 3-50hr in DMSO or other solvent.

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